

CLAIMS

1. A positive photosensitive composition comprising:

(A) an alkali soluble organic high molecular substance having a
5 phenolic hydroxyl group,

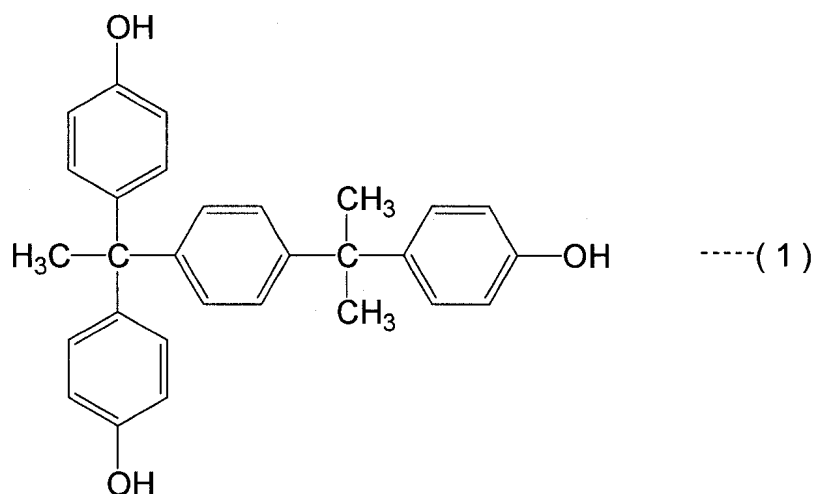
(B) a photo-thermal conversion material that absorbs infrared rays
from an image exposure light source and converts it to heat,

(C) at least one resin selected from the group consisting of: (1)
vinylpyrrolidone/vinyl acetate copolymer, (2) vinylpyrrolidone/dimethyl-
10 aminoethyl methacrylate copolymer, (3) vinylpyrrolidone/vinyl caprolactam/
dimethylaminoethyl methacrylate copolymer, (4) polyvinyl acetate, (5)
polyvinyl butyral, (6) polyvinyl formal, (7) styrene/maleic acid copolymer, (8)
terpene phenol resin, (9) alkylphenol resin, (10) melamine/formaldehyde
resin, and (11) ketone resin, and

15 (D) a dissolution inhibitor.

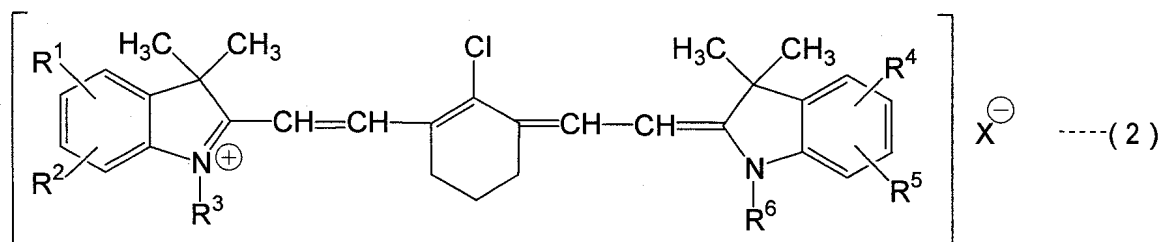
2. The positive photosensitive composition according to claim 1,
wherein the dissolution inhibitor (D) is a compound represented by the
following chemical formula (1).

[Chemical formula 21]



3. The positive photosensitive composition according to claim 1 or 2, wherein the photo-thermal conversion material (B) is a compound represented by the following formula (2).

5 [Chemical formula 22]

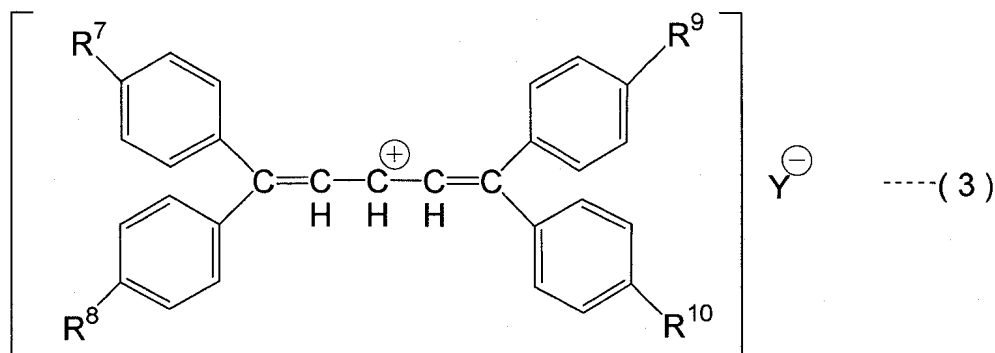


wherein each of "R¹" to "R⁶" independently represents a hydrogen atom, an alkyl group having 1 to 3 carbon atoms, or an alkoxyl group having 1 to 3 carbon atoms, and "X" represents a halogen atom, ClO₄, BF₄, p-CH₃C₆H₄SO₃,

10 or PF₆.

4. The positive photosensitive composition according to claim 1 or 2, wherein the photo-thermal conversion material (B) is a compound represented by the following formula (3).

[Chemical formula 23]



wherein each of "R⁷"~"R¹⁰" independently represents a hydrogen atom, a methoxyl group, N(CH₃)₂, or N(C₂H₅)₂, and "Y" represents C₄H₉·B(C₆H₅)₃, p-CH₃C₆H₄SO₃, or CF₃SO₃.

5 5. A photofabrication method using the positive photosensitive composition according to any of claims 1 to 4.

6. The photofabrication method according to claim 5, which is applied to production of a printing plate, an electronic component and a precision equipment component.

10 7. A plate-making method using the positive photosensitive composition according to any of claims 1 to 4.